FILE COPY

FORM PTO-1449 U.S. Dept. of Commerce Patent and Trademark Office

OIPE JAN 2 2 2002 PATENT & TRADEMARK OFFICE

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

Atty Docket No.	Serial No.
21657-0002C1	09/705,285
Applicant: Etcheverry et al.	
Filing Date: 11/01/2000	Group: ~~1653~~ 1646

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
MDP	*1	4,724,206	09.02.88	Rupp et al.			
	*2	5,096,816	17.03.92	Maiorella			
	*3	5,122,469	16.06.92	Mather et al.			
MDP	*4	5,151,359	29.09.92	Miyahara et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation Yes	No
MDP	*5	0,307,247	15.03.89	EPO				
	*6	0,481,791 A2	22.04.92	EPO				
	*7	387,840	19.09.90	EPO				
	*8	1-257492	13.10.89	JAPAN				
	*9	WO 89/04867	01.06.89	PCT				
	*10	2,251,249	01.07.92	UNITED KINGDOM				
MDP	*11	GB 2,122,207	11.01.84	UNITED KINGDOM				

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

MDP	*12	Andersen et al., "The Effect of Ammonium Ion on the O-Linked Glycosylation of Granulocyte Colony-Stimulating Factor Produced by CHO Cells" Abstracts of Papers, American Chemical Society pps. 169 (1993)
	*13	Borys et al., "Ammonia Affects the Glycosylation Patterns of Recombinant Mouse Placental Lactogen-I By Chinese Hamster Ovary Cells in a pH-Dependent Manner" Biotechnology and Bioengineering 43:505-514 (1994)
	*14	Borys et al., "Culture pH Affects Expression Rates and Glycosylation of Recombinant Mouse Placental Lactogen Proteins by Chinese Hamster Ovary (CHO) Cells" Bio/Technology 11:720-724 (1993)
	*15	Chotigeat et al., "Role of Environmental Conditions on the Expression Levels, Glycoform Pattern and Levels of Sialytransferase for hFSH Produced by Recombinant CHO cells" Cytotechnology 15:217-221 (1994)
	*16	Cox et al., "Effect of Media Composition on the Induction of Chorionic Gonadotropin by Sodium Butyrate in HeLa Cells" In Vitro 19(1):1-6 (1983)
	*17	Curling et al., "Recombinant Human IFN-γ Produced by CHO Cells: Effects of Culture Environment on Product Quality" Harnessing Biotechnology for the 21st Century pps. 308-310 (1992)
	*18	D'Anna et al., "Concentration-Dependent Effects of Sodium Butyrate in Chinese Hamster Cells: Cell-Cycle Progression, Inner-Histone Acetylation, Histone H1 Dephosphorylation, and Induction of an H1-like Protein" Biochemistry 19:2656-2671 (1980)
	*19	Engelmann et al., "Effect of Sodium Butyrate on Primary Cultures of Adult Rat Hepatocytes" In Vitro Cellular & Developmental Biology 23(2):86-92 (1987)
	*20	Exley et al., "Monoclonal antibody to TNF in severe septic shock" Lancet 335:1275-1276 (1990)
	*21	Forman et al., "Control of Osmolality in Mammalian Cell Cultures: Reduction of Lactic Acid Accumulation Throughout On-line Control of Glucose Concentration" Abstracts of Papers, American Chemical Society, 207th ACS National Meeting pps. 135 (1994)
MDP	*22	Garcia-Perez et al., "Molecular Cloning of cDNA Coding for Kidney Aldose Reductase" Journal of Biological Chemistry 264(28):16815-16821 (1989)

Examiner	Date Considered
MICHAEL PAK	3-21-03

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Dept. of Commerce Patent and Trademark Office

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

Atty Docket No.	Serial No.
21657-0002C1	09/705,285
Applicant Etcheverry et al.	
Filing Date 11/01/2000	**Group** ~~1653~~ 1646

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

MDP	★ 23	Gawlitzek et al., "Changes in the Glycosylation Pattern of Recombinant Proteins Effected by Defined Culture Conditions of BHK-21 Cells" Animal Cell Technology pps. 649-651 (1989)
	★ 24	Goochee et al., "Bioprocess Factors Affecting Glycoprotein Oligosaccharide Structure" DNA and Cell Biology 76:95-104 (1992)
	★ 25	Goochee et al., "Environmental Effects on Protein Glycosylation" Bio/Technology 8:421-427 (1990)
	★ 26	Goochee et al., "The Oligosaccarides of Glycoproteins: Bioprocess Factors Affecting Oligosaccharide Structure and Their Effect on Glycoprotein Properties" Bio/Technology 9:1347-1355 (1991)
	★ 27	Goochee et al., "The Oligosaccharides of Glycoproteins: Factors Affecting Their Synthesis and Their Influence on Glycoprotein Properties" Frontiers in Bioprocessing II pps. 199-240 (1992)
	★ 28	Gorman et al., "Expression of Recombinant Plasmids in Mammalian Cells is Enhanced by Sodium Butyrate" Nucleic Acids Research 11(21):7631-7648 (1983)
	★ 29	Gramer et al., "Potential for degradation of glycoprotein oligosaccharides by extracellular glycosidases" Am. Chem. Soc. (Abstract, 203rd Meeting, San Francisco, CA) PT 1:BIOT-71 (April 5, 1992)
	★ 30	Hagopian et al., "Effect of n-Butyrate on DNA Synthesis in Chick Fibroblasts and HeLa Cells" Cell 12:855-860 (1977)
	★ 31	Hart, "Glycosylation" Current Opinion in Cell Biology 4:1017-1023 (1992)
	★ 32	Hayter et al., "Glucose-Limited Chemostat Culture of Chinese Hamster Ovary Cells Producing Recombinant Human Interferon-γ" Biotechnology and Bioengineering 39:327-335 (1992)
	★ 33	Hearing et al., "Isolation of Chinese Hamster Ovary Cell Lines Temperature Conditional for the Cell-Surface Expression of Integral Membrane Glycoproteins" The J. of Cell Biology 108:339-353 (1989)
	★ 34	Howard et al., "Soluble Tumor Necrosis Factor Receptor: Inhibition of Human Immunodeficiency Virus Activation" Proc. Natl. Acad. Sci. USA 90:2335-2339 (1993)
	★ 35	Huang et al., "On-line determination of glucose concentration throughout animal cell cultures based on chemiluminescent detection of hydrogen peroxide coupled with flow-injection analysis" Journal of Biotechnology 18:161-162 (1991)
	★ 36	Klehr et al., "Scaffold-Attached Regions (SAR Elements) Mediate Transcriptional Effects Due to Butyrate" Biochemistry 31:3222-3229 (1992)
	★ 37	Kobata et al., "Structures and Functions of the Sugar Chains of Glycoproteins" European Journal of Biochemistry 209:483-501 (1992)
	★ 38	Le Gros et al., "The Effects of Sodium Butyrate on Lymphokine Production" Lymphokine Research 4(3):221-227 (1985)
	★ 39	McClure et al., "Glucose Requirement for Induction by Sodium Butyrate of the Glycoprotein hormone α Subunit in HeLa Cells" Archives of Biochemistry & Biophysics 233(1):93-105 (1984)
	★ 40	Milhaud et al., "Sodium Butyrate Affects Expression of Fibronectin on CHO Cells: Specific Increase in Antibody-Complement-Mediated Cytotoxicity" J. Cellular Physiology 104(2):163-170 (1980)
	★ 41	Mizutani et al., "High Glucose and Hyperosmolarity Increase Platelet-derived Growth Factor mRNA Levels in Cultured Human Vascular Endothelial Cells" Biochemical and Biophysical Research Communications 187(2):664-669 (1992)
MDP	★ 42	Ozturk et al., "Effect of Medium Osmolarity on Hybridoma Growth, Metabolism, and Antibody Production" Biotechnology and Bioengineering 37:989-993 (1991)

Examiner	Date Considered
MICHAEL PAK	3-21-03

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Dept. of Commerce Patent and Trademark Office

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

Atty Docket No.	Serial No.
21657-0002C1	09/705,285
Applicant: Etcheverry et al.	
Filing Date: 11/01/2000	Group: 1646 ~~1653~~

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

MOP	*43	Parekh, "Effects of Glycosylation on Protein Function" Current Opinion in Cell Biology 1:750-754 (1991)
	*44	Park et al., "Enhanced β-Galactosidase Production by High Cell-Density Culture of Recombinant Bacillus subtilis with Glucose Concentration Control" Biotechnology and Bioengineering 40:686-696 (1992)
	*45	Paulson, "Glycoproteins: What are the Sugar Chains for?" TIBS pps. 272-276 (1989)
	*46	Peppel et al., "A tumor necrosis factor (TNF) receptor-IgG heavy chain chimeric protein as a Bivalent antagonist of TNF activity" Journal of Experimental Medicine 174:1483-1489 (1991)
	*47	Prasad et al., "Effect of Sodium Butyrate on Mammalian Cells in Culture: A Review" In Vitro 12(2):125-132
	*48	Sliwkowski et al., "Effect of Culture Conditions on Carbohydrate Charge Heterogeneity of Recombinant Human Deoxyribonuclease Produced in CHO Cells" American Chemical Society Abstracts BIOT 72:72 (1992)
	*49	Stubblefield et al., "Effects of Sodium Chloride Concentration on Growth, Biochemical Composition, and Metabolism of HeLa Cells" Cancer Research 20:1646-1655 (1960)
	*50	Tracey et al., "Anti-cachectin/TNF monoclonal antibodies prevent septic shock during lethal bacteraemia" Nature 330:662-664 (1987)
	*51	Ulich et al., "Short Communication: Intratracheal Administration of Edotoxin and Cytokines IV. The Soluble Tumor Necrosis Factor Receptor Type I Inhibits Acute Inflammation" American Journal of Pathology 142(5):1335-1338 (1993)
	*52	Urlaub et al., "Isolation of Chinese Hamster Cell Mutants Deficient in Dihydrofolate Reductase Activity" Proc. Natl. Acad. Sci. USA 77(7):4216-4220 (July 1980)
	*53	Varki, "Biological Roles of Oligosaccharides: All of the Theories are Correct" Glycobiology 3:97-130 (1993)
	*54	Werner et al., "Mammalian Cell Cultures Part II: Genetic Engineering, Protein Glycosylatino< Fermentation and Process Control" Arzneim-Forsch./Drug Res. 43(II):1242-1249 (1993)
	*55	Wittwer et al., "Glycosylation at Asn-184 Inhibits the Conversion of Single-Chain to Two-Chain Tissue-Type Plasminogen Activator by Plasmin" Biochemistry 29:4175-4180 (1990)
	*56	Wooley et al., "Influence of a Recombinant Human Soluble Tumor Necrosis Factor Receptor FC Fusion Protein on Type II Collagen-Induced Arthritis In Mice" The Journal of Immunology pps. 6602-6607 (1993)
MOP	*57	Yuan et al., "Effect of Butyrate on the Expression of Microinjected or Transfected Genes" J. Biol. Chemistry 260(6):3778-3783 (1985)

Examiner: MICHAEL PAIK

Date Considered: 3-21-03

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT

(37 C.F.R. 1.56, 1.97, and 1.98)

SHEET 4 OF 4

ATTORNEY DOCKET	APPLICATION NO.
21657-0002C1	09/705,285

APPLICANT(S): Tina Etcheverry et al.

FILING DATE	GROUP
November 1, 2000	1646 ~~1653~~

PATENT DOCUMENTS

† EX'R INITIAL	* REF. #	PATENT NUMBER	DATE (MO/YR)	NAME	CLASS/ SUBCLASS	FILING DATE (If appropriate)
MDP	*58	5,510,261	04/1996	Goochee et al.	435/240.2	
MDP	*59	5,447,851	09/1995	Beutler et al.	435/69.7	
MDP	60	5,976,833	11/1999	Furukawa et al.	435/69.1	

FOREIGN PATENT DOCUMENTS

† EX'R INITIAL	* REF. #	PATENT NUMBER	DATE (MO/YR)	COUNTRY	TRANSLATION (YES/NO)
MDP	*61	0 239 292 A1	09/1987	EPO	
MDP	*62	2 153 830	08/1985	United Kingdom	
MDP	*63	WO 94/06476	03/1994	PCT	

OTHER DOCUMENTS

† EX'R INITIAL	* REF. #	CITATION (Author, Article Title, Journal/Book Title, Date, Pertinent Pages, etc.)
MDP	*64	T.J. Evans et al., "Protective Effect of 55-but not 75-kD Soluble Tumor Necrosis Factor Receptor-Immunoglobin G Fusion Proteins...", Journal Exp. Med., 180, 2173-2179 (1984).
MDP	*65	A. Ashkenazi et al., "Protection against endotoxic shock by a tumor necrosis factor recoptor immunoadhesin", Proc. Natl. Acad. Sci. U.S.A., 88 10535-10539 (1991).
MDP	*66	W. Chotigeat et al., "Role of enviromental conditions of the expression levels, glycoform patterns, and levels of sialyl transferase for hFSH produced by recombinant CHO cellls", Cytotechnology, 15, 217-221 (1994).
MDP	*67	A. Corti et al., "Identification of differentially glycosylated forms of the soluble p75 tumor necrosis factor (TNF) receptor in human urine", Medline Abstract No. 95315481 [an abstract of European Cytokine Network, 6(1), 29-35 (1995)].

EXAMINER'S SIGNATURE	DATE CONSIDERED
MICHAEL PAK	3-21-03

† EXAMINER: Initial if reference is considered whether or not citation is in conformance with MPEP 609. Line through citation if not in conformance and not considered. *Include copy of this form in next communication to applicant*

* If an asterisk is placed beside the reference number, a copy is not provided because the reference was previously cited by or submitted to the PTO in a prior application that is identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. 1.98(d).